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## ABSTRACT

A copy prevention method and apparatus of a cigital magactic recording/reproducing system performs the copy prevention function by encoding to insert a marker involving copy prevention function information and executing the function and allows a program supplier to realize a desired copy prevention function of various patterns, is which the marker formed by a control word for scrambling audio and video bit straps and copy prevention information for preventing an illegal copy is encrypted by an encoded key to be multiplexed with the audio and video bit strips and helping the cuntrol word. The marker transmitted is desected from the bit strips to be decrypted and analyzed by the exceded key to determine whether the copy is permitted ex not, so that the detected mericar is updated to be recorded on a video tape and the control word is produced from the marker to perform the descrambling to supply the result to a reconitor to be displayed. Thus, the program supplier selects the copy prevention function, and a separate format converting upparadus is not required since a field defined within a GA format is utilized while an existing DVCR is not need to be changed for performing the copy prevention function as the data amount to be recorded is not increased.

38 Claims, 5 Drawing Sheets